# USB 2.0 VGA LAN DOCK

# User Manual

**Version 2.0 June 26, 2009**

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# 1. Introduction

The **USB 2.0 VGA LAN DOCK** lets you come and go as you please without the hassle of connecting your monitor, mouse, keyboard, printer, and other devices to your Laptop each time. **The USB 2.0 VGA LAN DOCK** contains a three port USB 2.0 Hub, one serial DB9 port, one parallel printer port, one 10/100 RJ45 Ethernet port, PS/2 mouse and keyboard ports, and a VGA pass-through port- all in a single unit!

Connect your monitor, mouse, keyboard, printer, USB 2.0 devices, network and modem to the **USB 2.0 VGA LAN DOCK** for a convenient all-in-one connectivity solution. The **USB 2.0 VGA LAN DOCK** eliminates the clutter of cables connecting to your computer as it requires only a single VGA/USB combo cable. Additional USB hubs can be attached to connect up to 127 devices. No complex installation and no re-booting your PC. The **USB 2.0 VGA LAN DOCK** makes desktop use of your Laptop amazingly simple, convenient and, most importantly, inexpensive.

## 1.1. Features and Specifications

- Perfect for laptop users who also like to use their Laptop in the office but don't like the hassle of connecting each device every time
- Connect all peripherals to the docking station then connect the laptop to the dock. All of your peripherals are now connected, with just one cable!
- Economical alternative to expensive proprietary docking stations
- Full compliance with USB 2.0 specification
- Compliance with IEEE802.3u 100BASE-TX and with IEEE802.3 10BASE-T standards
- Multiple devices can be connected simultaneously
- Plug-and-play functionality eliminates the need to reboot during installation
- Approvals: FCC; CE
- Supports Windows 98SE/ME/2000/XP/Vista

## 1.2. System Requirements

- A minimum of 16M bytes of RAM available
- One available USB type A Female downstream port (UHCI, OHCI, or EHCI).
- Windows 98 or later

## 1.3. Package Contents

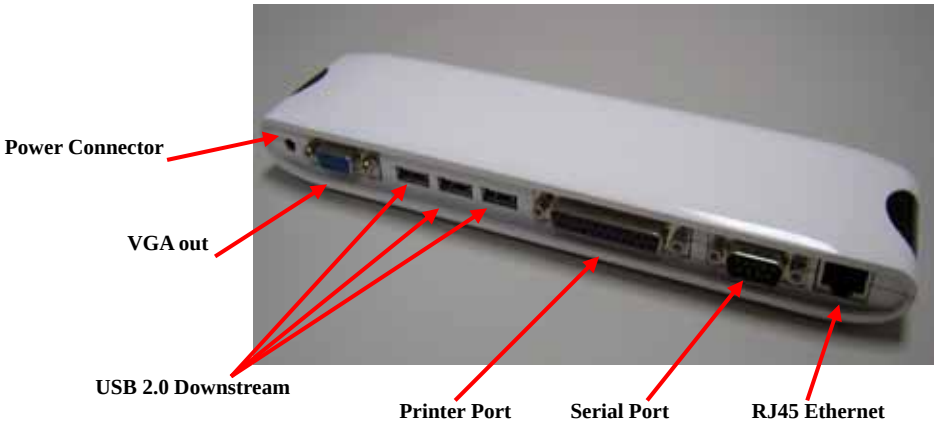
The product you purchased should contain the equipment and accessories shown as follows:

- USB 2.0 VGA LAN DOCK
- 3ft (90cm)VGA/USB combo cable
- 5V, 2A DC power adapter
- CD Driver
- User Manual

## 1.4. Connectors

- One DB-9 RS-232 serial connector supports baud rates from 1,200 to 115.2K
- One DB-25 parallel connector supports IEEE-1284 bi-directional printers
- One mini-din for PS/2 keyboard, one mini-din for PS/2 mouse
- One 10/100 Ethernet LAN port
- Three USB 2.0 female type A downstream ports (three port USB 2.0 Hub)
- One VGA Female output port (included VGA/USB combo cable connects the dock to your Laptop)
- One VGA male input port
- Power connector port

Fig 1.



## 1.5. Available Functions

The available functions of **USB 2.0 VGA LAN DOCK** depend on the status of power supplied:

- **Bus powered**
  1. Connect the USB/VGA combo Y cable to your PC to provide bus power.
  2. When you provide bus power only, the PS/2 mouse & keyboard, RS232, printer and Ethernet ports will be enabled. However, the USB2.0 Hub will only work in low power mode. Use of the external power adapter is recommended for full use of functions.

- **Externally powered**
  1. Connect the power adapter to provide external power.
  2. When you provide external power, the USB Downstream Ports can support all USB devices, and full functionality of the device is enabled.

## 1.6. LED Indicator

- **Power Indicator**

  The Power indicator will turn **BLUE** as either bus power or external power is supplied.

- **LAN Indicator**
  1. **Link/Act (BLUE)**: This LED emits a steady light if the 10/100Mbps (100BASE-TX) Ethernet is connected.
  2. **Transmission (BLUE)**: The LED will blink to indicate that the data is being received or transmitted through the RJ-45 port.

Fig 2.

# 2. Installing the USB 2.0 VGA LAN DOCK

Before connecting **USB 2.0 VGA LAN DOCK** to your computer, please install necessary drivers first. Please put the driver CD of **USB 2.0 VGA LAN DOCK,** the "**USB 2.0 Laptop Docking Station Driver Installer**" will execute automatically. If the installer does not start automatically, it might be **"auto-run"** option is disabled in your system, please execute "**AutoDrv.exe**" manually.

This installation guide is written in accordance with different operation systems, including Windows 98/98SE/ME, Windows 2000/XP/Vista. Please install **USB 2.0 VGA LAN DOCK** step by step by the following instructions:

## 2.1. Execute Driver Setup Program

### 2.1.1. Win98/98SE/Me Driver Setup

**A.** The **USB-Lan** driver files have been copied to your system, but the installation is not complete yet until USB enumeration is done later.

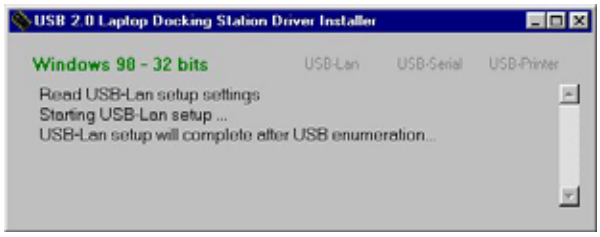



Fig Win98-Me-Setup-1

**B.** The **"USB 2.0 Laptop Docking Station Driver Installer"** will launch **USB-Serial** installer automatically.

Fig Win98-Me-Setup-2

**C.** Click "**Next**" to continue.

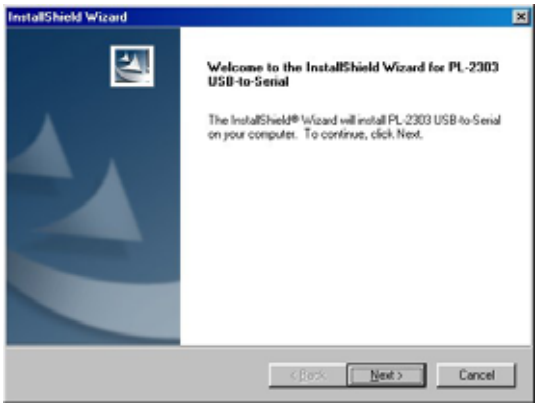

InstallShield Wizard
Welcome to the InstallShield Wizard for PL-2303 USB-to-Serial
The InstallShield® Wizard will install PL-2303 USB-to-Serial on your computer. To continue, click Next.
< Back
Next >
Cancel

Fig Win98-Me-Setup-3

**D.** Select "**I accept the terms of the license agreement**" and click "Next" to continue.

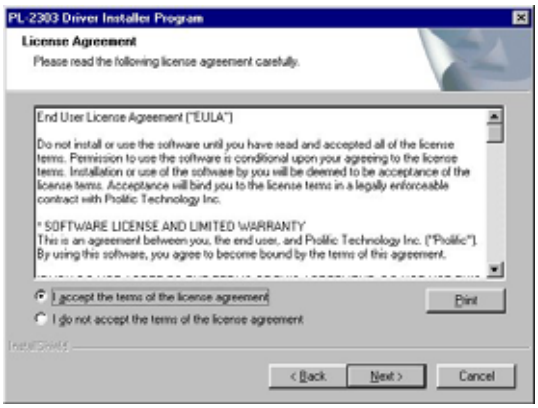

PL-2303 Driver Installer Program
License Agreement
Please read the following license agreement carefully.
End User License Agreement ("EULA")
Do not install or use the software until you have read and accepted all of the license terms. Permission to use the software is conditional upon your agreeing to the license terms. Installation or use of the software by you will be deemed to be acceptance of the license terms. Acceptance will bind you to the license terms in a legally enforceable contract with Prolific Technology Inc.
* SOFTWARE LICENSE AND LIMITED WARRANTY
This is an agreement between you, the end user, and Prolific Technology Inc. ("Prolific"). By using this software, you agree to become bound by the terms of this agreement.
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
< Back
Next >
Cancel

Fig Win98-Me-Setup-4

**E.** Press "**Finish**" to complete the setup program.

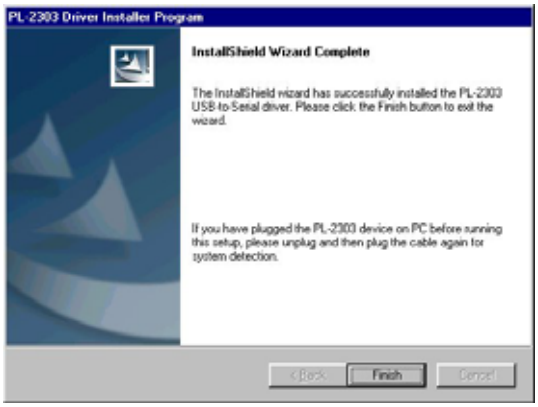

PL-2303 Driver Installer Program
InstallShield Wizard Complete
The InstallShield wizard has successfully installed the PL-2303 USB-to-Serial driver. Please click the Finish button to exit the wizard.
If you have plugged the PL-2303 device on PC before running this setup, please unplug and then plug the cable again for system detection.
< Back
Finish
Cancel

Fig Win98-Me-Setup-5

**F.** The "**USB-Serial**" drivers have been installed.

Fig Win98-Me-Setup-6

**G.** The **USB-Printer** driver files have been copied to your system, but the installation is not complete yet until USB enumeration is done later.

Fig Win98-Me-Setup-7

### 2.1.2. Windows 2000/XP32 Driver Setup

**A.** The driver setup for Windows 2000 and Windows XP 32 bits are similar, only detected OS is different. The following procedure is illustrated in Windows XP 32 bits.

**B.** The **USB-Printer** driver is embedded in Microsoft Windows and no necessary to install.

Fig Win2K-XP32-Setup-1

**C.** The **"USB 2.0 Laptop Docking Station Driver Installer"** will launch **USB-Lan** installer automatically.

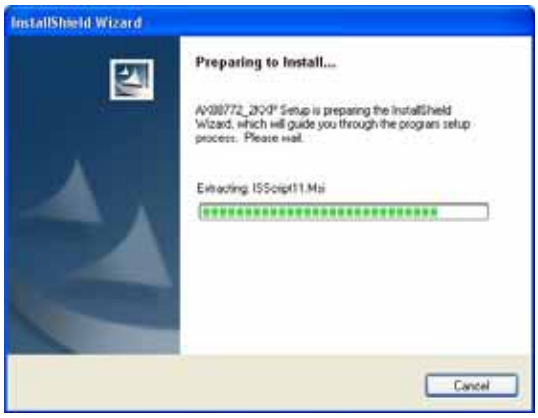



Fig Win2K-XP32-Setup2

**D.** Press "**Finish**" to complete the setup program.

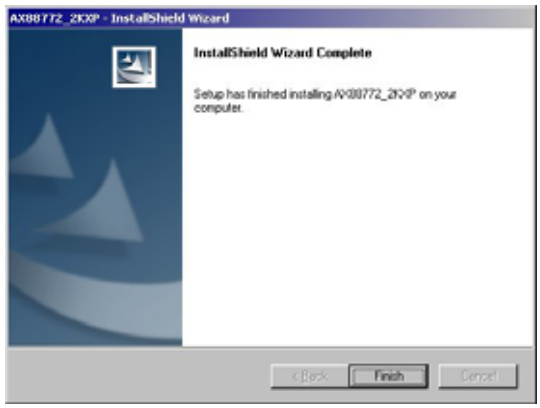



Fig Win2K-XP32-Setup3

**E.** The "**USB-Lan**" drivers have been installed.

Fig Win2K-XP32-Setup-4

**F.** The **"USB 2.0 Laptop Docking Station Driver Installer"** will launch **USB-Serial** installer automatically.

Fig Win2K-XP32-Setup-5

**G.** Click "**Next**" to continue.

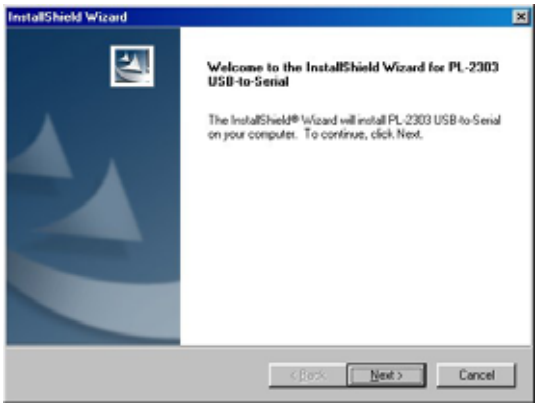

InstallShield Wizard
Welcome to the InstallShield Wizard for PL-2303 USB-to-Serial
The InstallShield® Wizard will install PL-2303 USB-to-Serial on your computer. To continue, click Next.
< Back
Next >
Cancel

Fig Win2K-XP32-Setup-6

**H.** Select "**I accept the terms of the license agreement**" and click "Next" to continue.

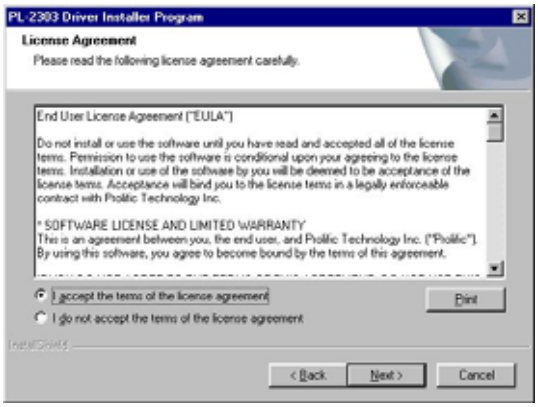

PL-2303 Driver Installer Program
License Agreement
Please read the following license agreement carefully.
End User License Agreement ("EULA")
Do not install or use the software until you have read and accepted all of the license terms. Permission to use the software is conditional upon your agreeing to the license terms. Installation or use of the software by you will be deemed to be acceptance of the license terms. Acceptance will bind you to the license terms in a legally enforceable contract with Prolific Technology Inc.
* SOFTWARE LICENSE AND LIMITED WARRANTY
This is an agreement between you, the end user, and Prolific Technology Inc. ("Prolific"). By using this software, you agree to become bound by the terms of this agreement.
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

Fig Win2K-XP32-Setup-7

**I.** Press "**Finish**" to complete the setup program.

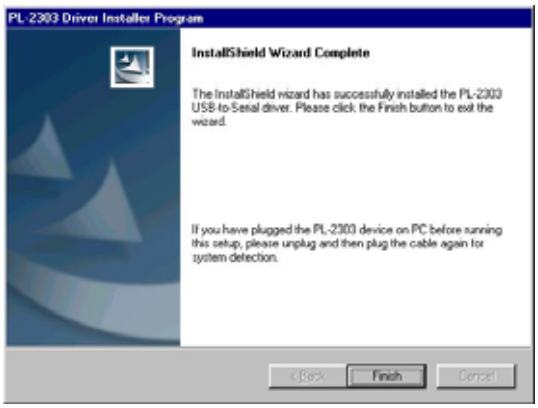

PL-2303 Driver Installer Program
InstallShield Wizard Complete
The InstallShield wizard has successfully installed the PL-2303 USB-to-Serial driver. Please click the Finish button to exit the wizard.
If you have plugged the PL-2303 device on PC before running this setup, please unplug and then plug the cable again for system detection.
< Back
Finish
Cancel

Fig Win2K-XP32-Setup-8

**J.** The "**USB-Serial**" drivers have been installed.

Fig Win2K-XP32-Setup-9

### 2.1.3. Windows XP64 Driver Setup

**A.** The **USB-Printer** driver is embedded in Microsoft Windows and no necessary to install.

Fig XP64-Setup-1

**B.** The **"USB 2.0 Laptop Docking Station Driver Installer"** will launch **USB-Lan** installer automatically.

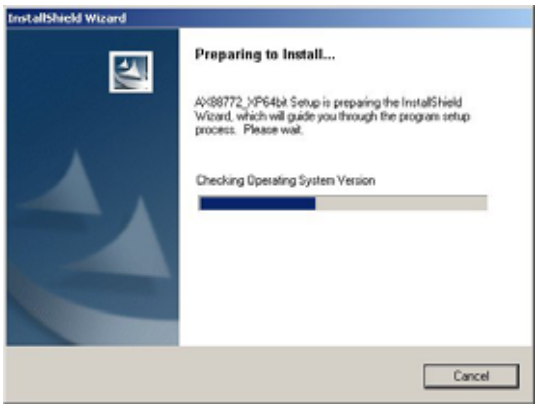

InstallShield Wizard
Preparing to Install...
AX88772_XP64bit Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Checking Operating System Version
Cancel

Fig WinXP64-Setup2

**C.** Press "**Finish**" to complete the setup program.

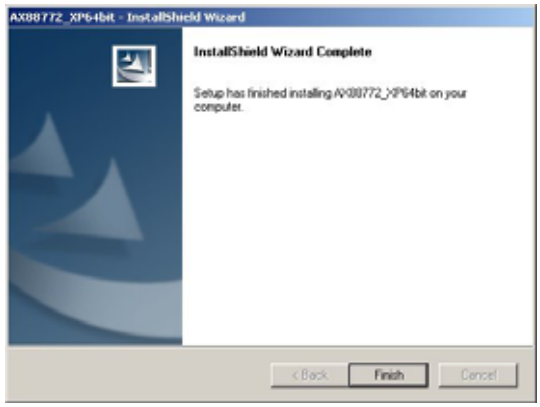



Fig WinXP64-Setup3

**D.** The "**USB-Lan**" drivers have been installed.

Fig WinXP64-Setup-4

**E.** The **USB-Serial** driver files have been copied to your system, but the installation is not complete yet until USB enumeration is done later.

Fig WinXP64-Setup-5

### 2.1.4. Windows Vista 32/64 Driver Setup

**A.** The driver setup for Windows Vista 32 bits and 64 bits are similar, only detected OS is different. The following procedure is illustrated in Windows Vista 32 bits.

**B.** The **USB-Printer** driver is embedded in Microsoft Windows and no necessary to install.

Fig Vista-Setup-1

**C.** The **"USB 2.0 Laptop Docking Station Driver Installer"** will launch **USB-Lan** installer automatically. Please click "**Finish**" to complete the setup program.

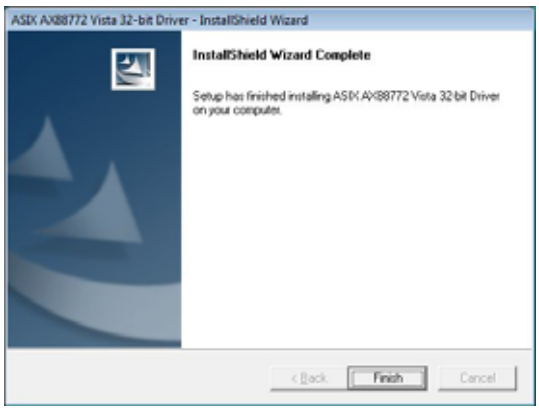

ASIX AX88772 Vista 32-bit Driver - InstallShield Wizard
InstallShield Wizard Complete
Setup has finished installing ASIX AX88772 Vista 32-bit Driver on your computer.
< Back
Finish
Cancel

Fig Vista-Setup2

**D.** The "**USB-Lan**" drivers have been installed.

Fig Vista-Setup-3

**E.** The **"USB 2.0 Laptop Docking Station Driver Installer"** will launch **USB-Serial** installer automatically.

Fig Vista-Setup-4

**F.** Click "**Next**" to continue.

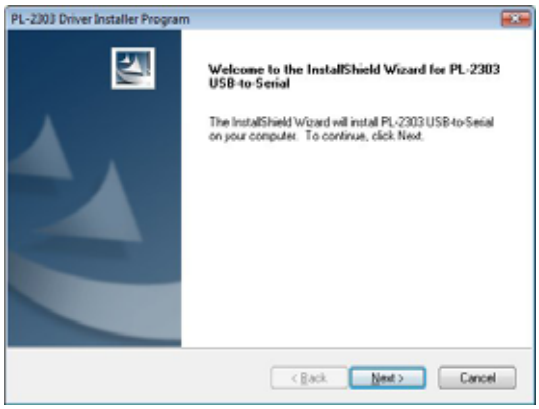
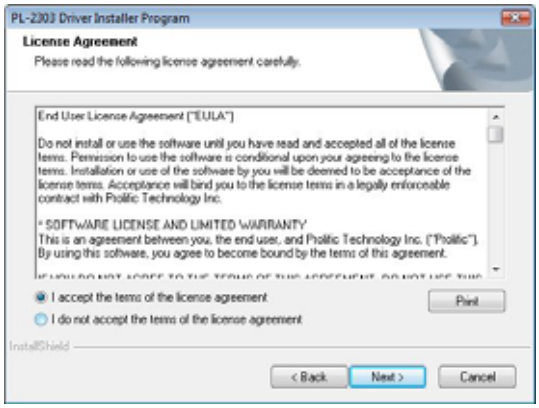

PL-2303 Driver Installer Program
Welcome to the InstallShield Wizard for PL-2303 USB-to-Serial
The InstallShield Wizard will install PL-2303 USB-to-Serial on your computer. To continue, click Next.
< Back
Next >
Cancel

Fig Vista-Setup-5

**G.** Select "**I accept the terms of the license agreement**" and click "Next" to continue.


PL-2303 Driver Installer Program
License Agreement
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End User License Agreement ("EULA")
Do not install or use the software until you have read and accepted all of the license terms. Permission to use the software is conditional upon your agreeing to the license terms. Installation or use of the software by you will be deemed to be acceptance of the license terms. Acceptance will bind you to the license terms in a legally enforceable contract with Prolific Technology Inc.
* SOFTWARE LICENSE AND LIMITED WARRANTY
This is an agreement between you, the end user, and Prolific Technology Inc. ("Prolific"). By using this software, you agree to become bound by the terms of this agreement.
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

Fig Vista-Setup-6

**H.** Press "**Finish**" to complete the setup program.

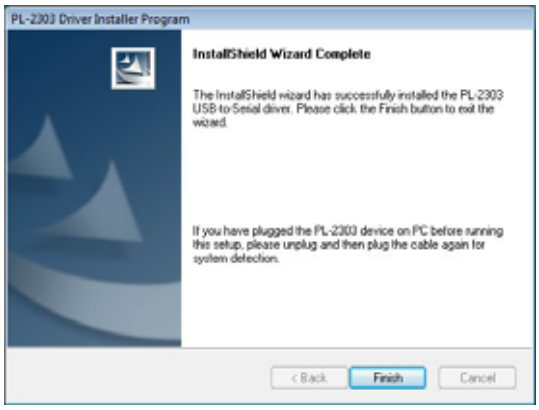

PL-2303 Driver Installer Program
InstallShield Wizard Complete
The InstallShield wizard has successfully installed the PL-2303 USB-to-Serial driver. Please click the Finish button to exit the wizard.
If you have plugged the PL-2303 device on PC before running this setup, please unplug and then plug the cable again for system detection.
< Back
Finish
Cancel

Fig Vista-Setup-7

**I.** The "**USB-Serial**" drivers have been installed.

Fig Vista-Setup-8

## 2.2. Hardware Installation

1. Power on your computer and make sure that the USB and VGA ports are enabled and working properly.
2. Put the Driver CD into CD-ROM drive of your PC or Notebook.
3. Connect the power adapter to the **USB 2.0 VGA LAN DOCK** (to utilize full functionality).
4. Connect the **USB 2.0 VGA LAN DOCK** to the USB and VGA port on your computer with the **VGA/USB combo Y cable** provided.
5. Windows will start detecting USB devices. Please follow the section below that supports your particular operating system to install your **USB 2.0 VGA LAN DOCK**.

Fig. 3 **Insert VGA/USB Combo cable here then attach to your computer**

## 2.3. USB Device Enumeration

The driver installation is divided into the following steps. Please install **USB 2.0 VGA LAN DOCK** step by step by the following instructions:

### 2.3.1. Win98/98SE/Me USB Device Enumeration

**A. USB-to-Serial Port Enumeration**

USB-to-Serial Port will enumerate automatically since the driver has been setup.

**B. USB Hub Enumeration**

i. Insert the "**Windows 98**" CD into CD-ROM drive and press "**Next**" to continue.

Add New Hardware Wizard
This wizard searches for new drivers for:
HUB Support for USB 2.0
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

Fig. Enum98-B1

ii. Click "**Search for the best driver for your device**" and press "**Next**" to continue.

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Fig. Enum98-B2

iii. Click "**Specify a location**" and press "**Next**" to continue.

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
C:\Program Files\LanDock
Browse...
< Back
Next >
Cancel

Fig. Enum98-B3

iv. Press "**Next**" to start the installation process.

Add New Hardware Wizard
Windows driver file search for the device:
HUB Support for USB 2.0
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
C:\WINDOWS\INF\OTHER\VIAUSB~1.INF
< Back
Next >
Cancel

Fig. Enum98-B4

v. Press "**Finish**" to complete the installation of USB HUB.

Add New Hardware Wizard
HUB Support for USB 2.0
Windows has finished installing the software that your new hardware device requires.
< Back
Finish
Cancel

Fig. Enum98-B5

## C. USB Composite Device Enumeration

i. Please insert the "**Windows 98**" CD into your CD-ROM drive and press "**Next**" to continue.

Add New Hardware Wizard
This wizard searches for new drivers for:
USB 2.0 Composite Device
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

Fig. Enum98-C1

ii. Click "**Search for the best driver for your device**" and press "**Next**" to continue.

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Fig. Enum98-C2

iii. Click "**Specify a location**" and press "**Next**" to start the searching process.

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
C:\Program Files\LanDock
Browse...
< Back
Next >
Cancel

Fig. Enum98-C3

iv. Press "**Next**" to start the installation process.

Add New Hardware Wizard
Windows driver file search for the device:
USB 2.0 Composite Device
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
C:\WINDOWS\INF\OTHER\OUSB2.INF
< Back
Next >
Cancel

Fig. Enum98-C4

v. Press "**Finish**" to complete the installation of Composite Device.

Add New Hardware Wizard
USB 2.0 Composite Device
Windows has finished installing the software that your new hardware device requires.
< Back
Finish
Cancel

Fig. Enum98-C5

## D. Ethernet Port Enumeration

i. Please insert the **USB 2.0 VGA LAN DOCK** CD into your CD-ROM drive and press "**Next**" to continue.

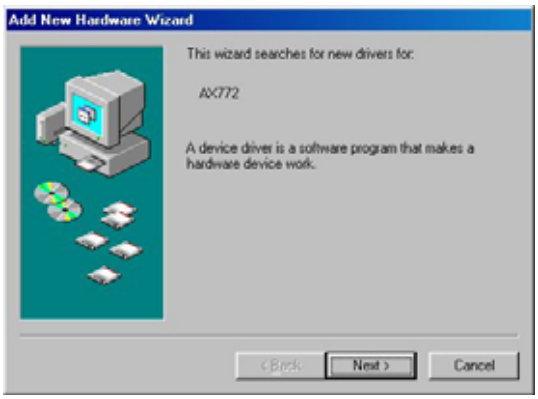

Add New Hardware Wizard
This wizard searches for new drivers for:
AX772
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

Fig. Enum98-D1

ii. Click "**Search for the best driver for your device**" and press "**Next**" to continue.

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Fig. Enum98-D2

iii. Click "**Specify a location**" and click "**Next**" to continue..

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
C:\Program Files\LanDock
Browse...
< Back
Next >
Cancel

Fig. Enum98-D3

iv. Press "**Next**" to start the installation process. (Windows might ask you to insert the "Windows 98" CD during the installation process).

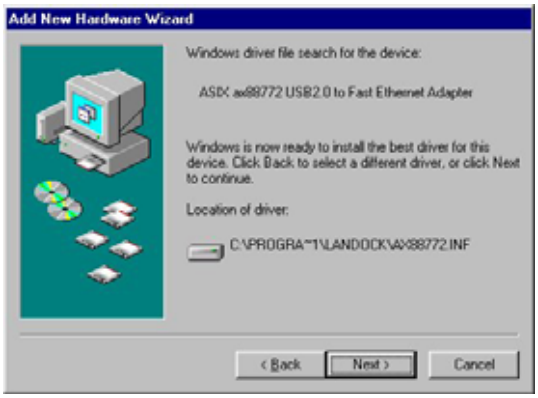

Add New Hardware Wizard
Windows driver file search for the device:
ASIX ax88772 USB2.0 to Fast Ethernet Adapter
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
C:\PROGRA~1\LANDOCK\AX88772.INF
< Back
Next >
Cancel

Fig. Enum98-D4

v. Press "**Finish**" to complete the installation of Ethernet Port. (Restart Windows might necessary)

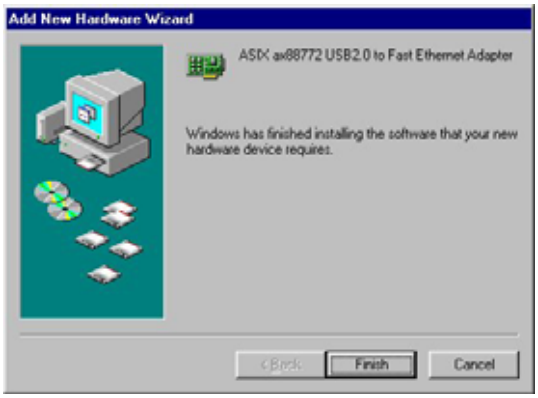

Add New Hardware Wizard
ASIX ax88772 USB2.0 to Fast Ethernet Adapter
Windows has finished installing the software that your new hardware device requires.
< Back
Finish
Cancel

Fig. Enum98-D5

## E. USB HID Device Enumeration

i. The following steps might repeat multiple times due to different HID devices, mouse and keyboard.

ii. Please insert the "**Windows 98**" CD into your CD-ROM drive and press

"**Next**" to continue.

Add New Hardware Wizard
This wizard searches for new drivers for:
USB Human Interface Device
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

Fig. Enum98-E1

iii. Click "**Search for the best driver for your device**" and press "**Next**" to continue.

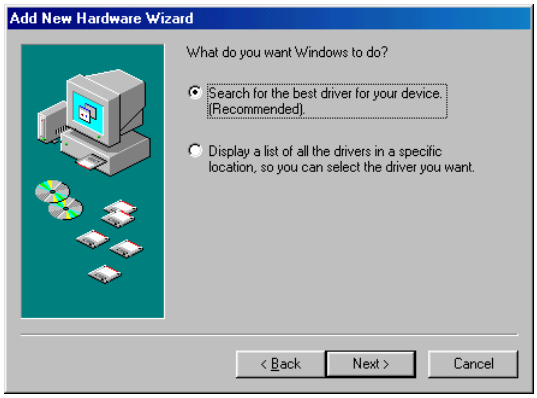

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Fig. Enum98-E2

iv. Click "**Specify a location**" and press "**Next**" to start the searching process.

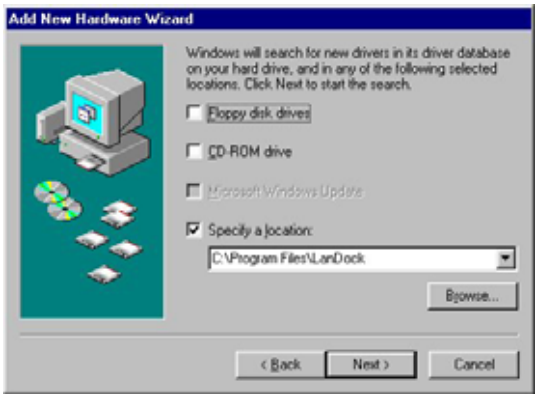

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
C:\Program Files\LanDock
Browse...
< Back
Next >
Cancel

Fig. Enum98-E3

v. Press "**Next**" to start the installation process.

Add New Hardware Wizard
Windows driver file search for the device:
USB Human Interface Device
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
C:\WINDOWS\INF\HIDDEV.INF
< Back
Next >
Cancel

Fig. Enum98-E4

vi. Press "**Finish**" to complete the installation of USB Human Interface Device.

Add New Hardware Wizard
USB Human Interface Device
Windows has finished installing the software that your new hardware device requires.
< Back
Finish
Cancel

Fig. Enum98-E5

vii. All drivers are installed complete, please close the program.

USB 2.0 Laptop Docking Station Driver Installer
Windows 98 - 32 bits
USB-Lan
USB-Serial
USB-Printer
Read USB-Printer setup settings
Starting USB-Printer setup ...
USB-Printer setup will complete after USB enumeration...
Please plug in device to start USB enumeration...
Install complete !

Fig. Enum98-OK

### 2.3.2. Windows 2000/XP32/Vista USB Device Enumeration

All USB devices on **USB 2.0 VGA LAN DOCK** will enumerate automatically since all the drivers have been installed.

Fig. EnumXP32-OK

### 2.3.3. Windows XP64 USB Device Enumeration

#### A. USB-to-Serial Port Enumeration

i. Please select "**No, not this time**" and press "**Next**" to continue.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Online privacy information
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

Fig. EnumXP64-1

ii. Please select "**Install the software automatically (Recommended)**", and click "**Next**" to continue.

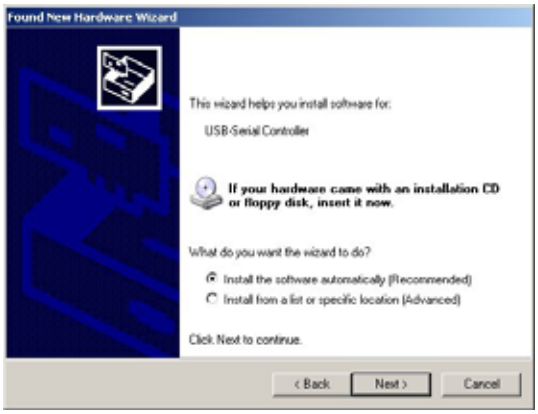

Found New Hardware Wizard
This wizard helps you install software for:
USB-Serial Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Fig. EnumXP64-2

iii. Click "**Finish**" to complete the **USB-to-Serial** driver enumeration.

Fig. EnumXP64-3

**B. Other USB Device Enumeration**

The other USB devices on **USB 2.0 VGA LAN DOCK** will enumerate automatically since their drivers have been installed.

USB 2.0 Laptop Docking Station Driver Installer
Windows 98 - 32 bits
USB-Lan
USB-Serial
USB-Printer
Read USB-Printer setup settings
Starting USB-Printer setup ...
USB-Printer setup will complete after USB enumeration...
Please plug in device to start USB enumeration...
Install complete !

Fig. EnumXP64-OK

## 2.4. Important Set Up Info

- Before connecting the printer to the parallel port of **USB 2.0 VGA LAN DOCK**, the printer driver must be installed on your computer in advance, otherwise it might print an unknown format of characters.

- Please refer to "**Setting Up the Printer Device**" section to connect your printer to the **USB 2.0 VGA LAN DOCK**.

- For modem users, please install the modem driver manually before connecting the modem to the converter, otherwise it might operate unexpectedly.

- Please refer to "**Setting Up the HyperTerminal with USB to serial port**" section as an example of routing your COM port setting.

- For laptop computer users:
  You must follow your laptop's user reference guide provided by the computer manufacture to set up the VGA output to your extra VGA port properly. The **USB 2.0 VGA LAN DOCK** does not provide the feature of a second display card, but rather repeats the VGA display from your laptop to a larger VGA monitor. This allows you the convenience of a larger display without having to set it up each time.

## 2.5. Checking for Proper Installation

Please click on **Start, Settings, Control Panel**, double-click **System**, and **Device Manager**. Please double check "**Human Interface Devices**", "**Keyboard**", "**Mouse**", "**Network adapters**", "**Ports**", and "**Universal serial bus controller**" on the dialog box and see if they are working properly.

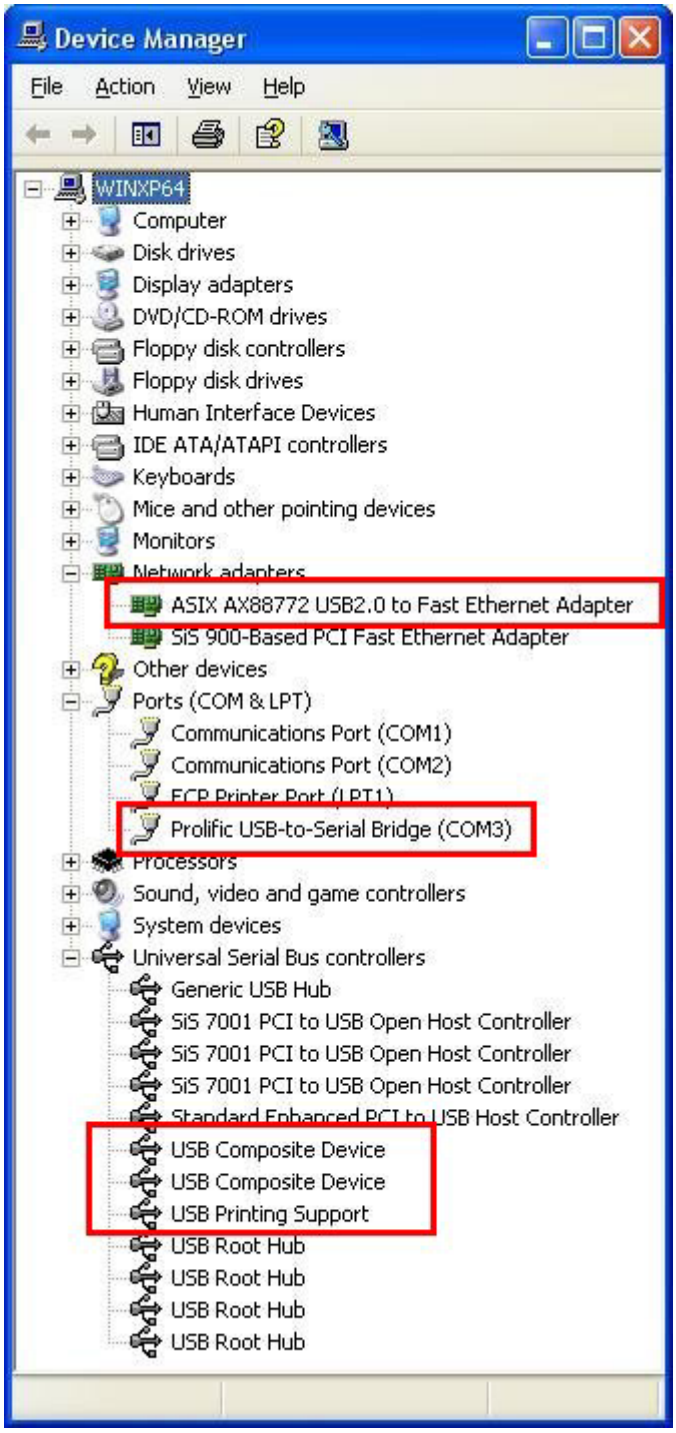



Fig.4

## 2.6. Setting Up the Printer Device

Follow the steps below to connect your printer to the **USB 2.0 VGA LAN DOCK** with your PC:

### 2.6.1. For Windows 98/98SE/ME:

1. Connect the **USB 2.0 VGA LAN DOCK** to your printer with the parallel cable and turn on the printer.
2. Connect the **USB 2.0 VGA LAN DOCK** to the USB port on your computer with the USB/VGA combo cable provided.
3. Please go to **Start, Settings, Control Panel**, double click **System**, and **Device Manager**. Check **Ports** on the dialog box and see which printer ports the "**USB-to-Parallel Port**" is located. The following example is located as **LPT2**. (Ref. Fig.5)

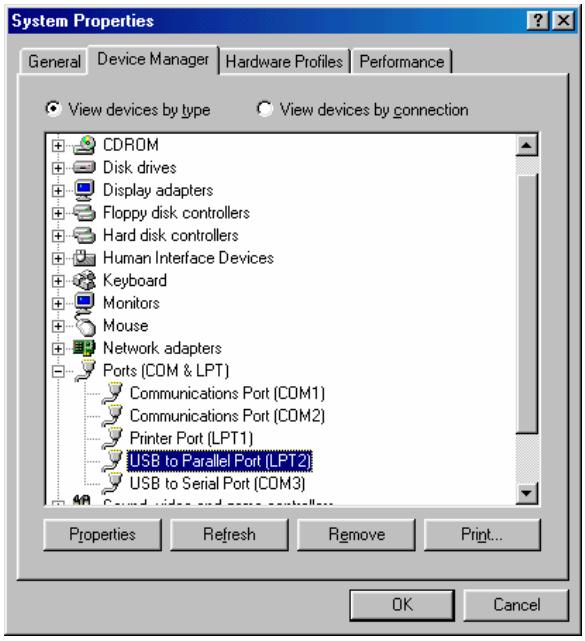



Fig.5

4. If you have installed a printer device before, go to **Start, Settings**, and **Printers**. Right-click the **default-installed printer** and choose **Properties**. The Properties dialog box of the installed printer will appear on your screen.

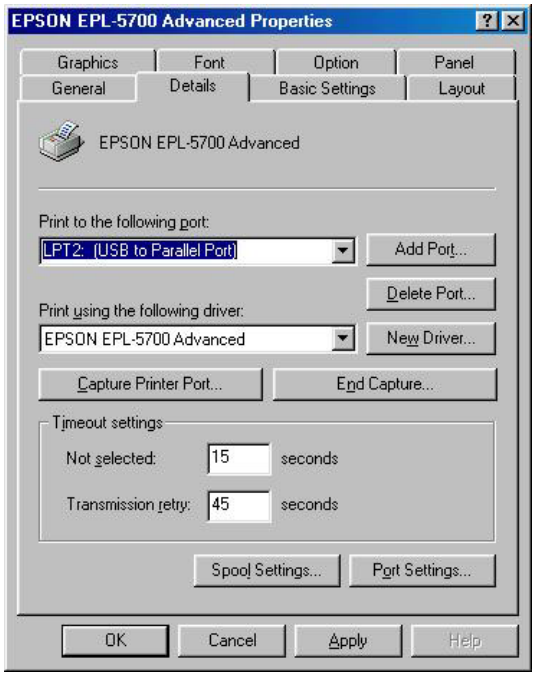



Fig.6

5. Click **Details** folder tab and change the printer port to **LPT2:(USB-to- Parallel Port.)** (Ref. Fig.7)

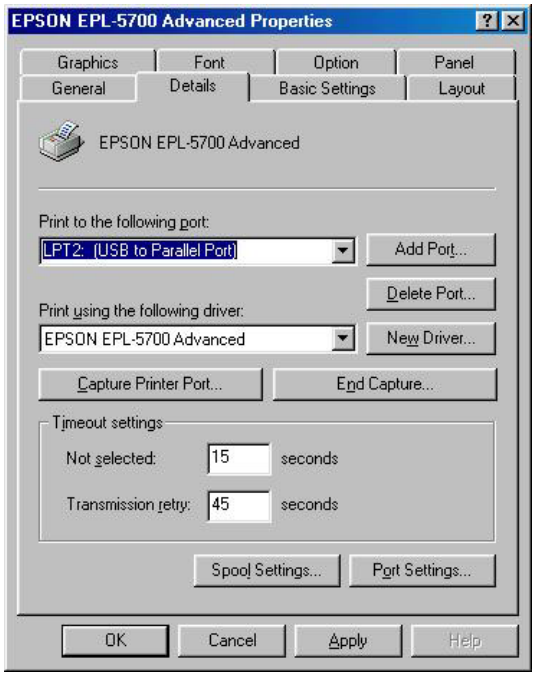



Fig.7

6. If you do not have a printer installed yet, go to **Start, Settings, Printers**, and choose **Add Printer**. The **Add Printer Wizard** will start and assist you to install a new printer device. Select the printer manufacturer and model name from the list provided by the wizard or use the printer driver diskette came with your printer.
7. Windows will ask you which port the printer will be used, choose **LPT2: USB to Parallel Port**. (Ref. Fig.8)

Follow the instructions to complete the installation. Run **Print Test Page** to see if the printer is working without any problem

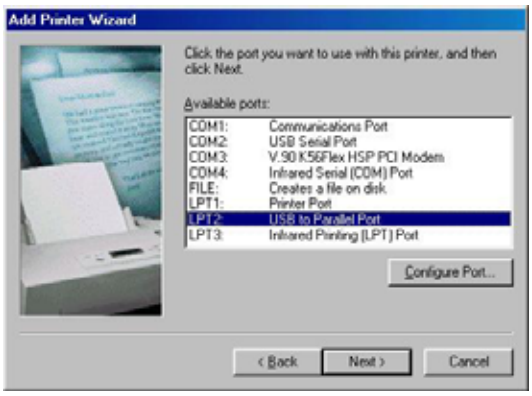

Add Printer Wizard
Click the port you want to use with this printer, and then click Next.
Available ports:
COM1: Communications Port
COM2: USB Serial Port
COM3: V.90 K56Flex HSP PCI Modem
COM4: Infrared Serial (COM) Port
FILE: Creates a file on disk
LPT1: Printer Port
LPT2: USB to Parallel Port
LPT3: Infrared Printing (LPT) Port
Configure Port...
< Back
Next >
Cancel

Fig.8

### 2.6.2. For Windows 2000/XP/Vista:

1. Connect the **USB 2.0 VGA LAN DOCK** to your printer with the parallel cable and then turn on the printer.
2. Connect the **USB 2.0 VGA LAN DOCK** to the USB port on your computer with the USB/VGA combo cable provided.
3. If you have installed a printer device before, go to **Start, Settings**, and **Printers**. Right-click the **default-installed printer** and choose **Properties**. The Properties dialog box of the installed printer will appear on your screen.
4. Click **Ports** folder tab and change the printer port to **USB001**: **(Virtual printer port for USB)**. (Ref. Fig.9)

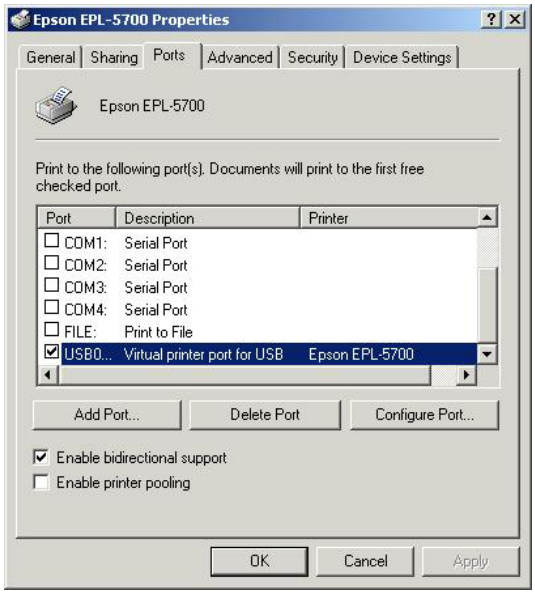



Fig.9

5. If you do not have a printer installed yet, click on **Start, Settings, Printers** and choose **Add Printer**. The **Add Printer Wizard** will start and assist you to install a

new printer device. Select the printer manufacturer and model name from the list provided by the wizard or use the printer driver diskette came with your printer.

6. Windows will ask you which port the printer will be used, choose **USB001:(Virtual printer port to USB)**. (Ref. Fig.10)

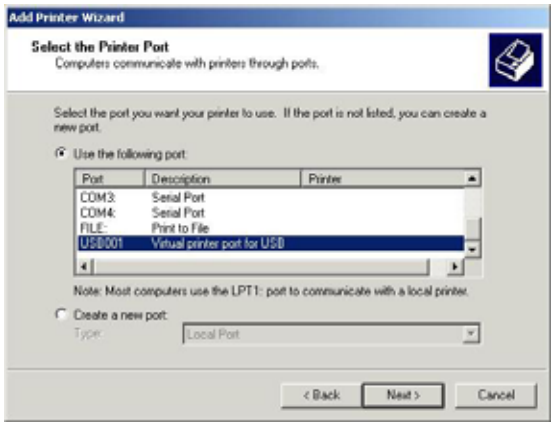



Fig.10

## 2.7. Setting up the HyperTerminal with USB to serial port

1. Make sure that HyperTerminal is installed in your system. If not, please go to **Start, Settings**, and **Control Panel**. Double click **Add/Remove Programs**, choose **Windows Setup page, Communications**, click **Details** button and enable **HyperTerminal** to install the program to your Windows system.
2. Go to **Start, Settings, Control Panel,** double click **System**, and click on **Device Manager**. Check which COM port is located by USB to serial port. (Ref. Fig.11)

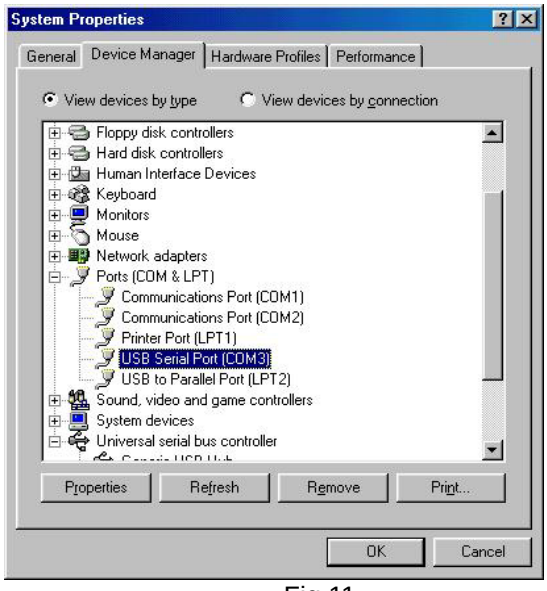



Fig.11

3. If you have setup HyperTerminal before, please go to **Start, Programs**, **Accessories, Communications, HyperTerminal**. Click **File** and choose **Properties**. The Properties dialog page will appear on your screen. If it is your first time to setup HyperTerminal, you will see the following page during the setup

procedure. (Ref. Fig.12)

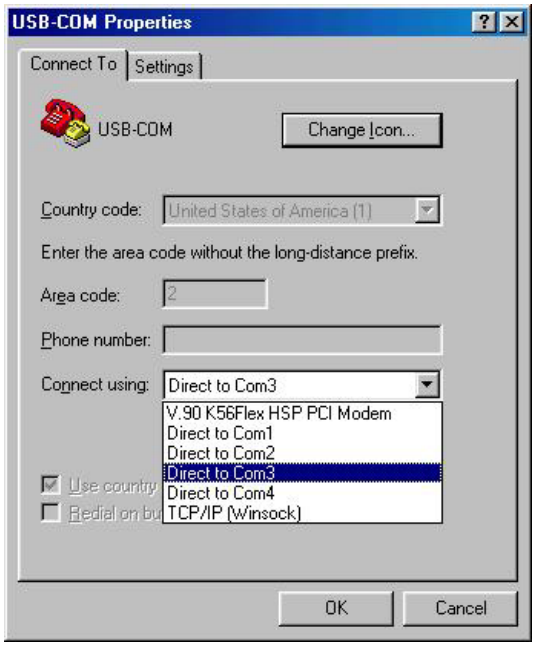



Fig.12

4. Click the **Connect using** item to indicate the proper COM port, which appeared in step 1. Follow the instructions to complete the setup.

# 3. Uninstalling the USB 2.0 VGA LAN DOCK

If you want to remove **USB 2.0 VGA LAN DOCK** and its driver, please follow the steps below:

## 3.1. Removing the device

Please Unplug the USB cable.

## 3.2. Uninstalling the driver

### 3.2.1. For Windows 98/SE/ME (Remove Printer, LAN, Serial Drivers):

1. Run **Uninst.exe** from the driver folder "**USB-Printer\LPT_98Me**" on the **USB 2.0 VGA LAN DOCK** CD.

2. Please Press **OK** to remove Printer Converter. (Ref. Fig.13)

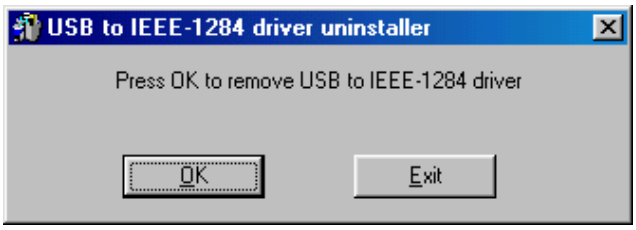



Fig.13

3. Printer Converter has been removed. Please press Exit to continue. (Ref. Fig.14)

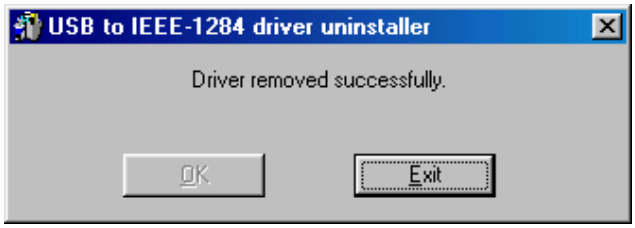



Fig.14

4. Run **remove_98me.exe** from the driver folder "**USB-Lan\Windows ME-98**" on the **USB 2.0 VGA LAN DOCK** CD to remove the LAN driver, this program will not show any message on the screen.

5. In **[Control Panel], [Add/Remove Program]**, remove "**PL2303 driver installer**" to uninstall USB-Serial driver.

6. Reboot your Windows system to complete.

### 3.2.2. For Windows 2000/XP32 (Remove LAN, Serial Driver):

1. In **[Control Panel], [Add/Remove Program]**, remove "**AX88772_2KXP**" to uninstall USB-LAN driver.

2. In **[Control Panel], [Add/Remove Program],** remove "**PL2303 driver installer**" to uninstall USB-Serial driver.

### 3.2.3. For Windows XP64 (Remove LAN, Serial Driver ):

1. In **[Control Panel], [Add/Remove Program]**, remove "**AX88772_XP 64bit**" to uninstall USB-LAN driver.

2. Run **DRemover_x64.exe** from the driver folder "**USB-Serial\WinXP64**" on the **USB 2.0 VGA LAN DOCK** CD.

3. Reboot your Windows system to complete.

### 3.2.4. For Windows Vista ( Remove LAN, Serial Driver ):

1. In **[Control Panel], [Add/Remove Program]**, remove "**PL2303 Vista driver installer**" to uninstall USB-Serial driver.

2. In **[Control Panel], [Add/Remove Program]**, remove "**ASIX AX88772 Vista 32/64-bit Driver**" to uninstall USB-LAN driver.

# 4. TROUBLE SHOOTING

- **Q: I installed the driver for the USB 2.0 VGA LAN DOCK under Windows XP/Vista operating system but there is no Pinter Port available in the device manager however the other Ports ( Serial ,Mouse, Keyboard and USB) are OK .**

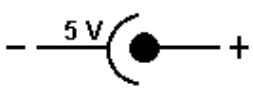
  **A:** The driver for USB to Printer converter on Windows 2000 and XP/Vista is not required. Microsoft supports USB Printer class in both OS. The related driver will be loaded automatically by Microsoft when you plug in the USB to Printer device. It will create a message "**printer support device**" in the device manager and a "**virtual printer port for USB** " in the port selection of printer setting. You can check this item and it will work on both systems.

  This is different for Windows 98 and ME. There won't be any LPT port generated by the system as like in 98/ME . Please also refer to the user's manual section entitled "**Set up the Printer Device** " for Windows 2000 and XP .

- **Q: The USB ports are not functioning properly without the power adapter but other devices are.**

  **A: USB 2.0 VGA LAN DOCK** normally derives its own power from the PC Host. When only the Host power is supplied, the Power LED will turn BLUE, and the serial, parallel, keyboard, mouse, Ethernet and three USB ports can operate without the external power adapter.

  Please note that if the external power adapter is not used and heavy power consuming USB devices are connected, the USB ports may not function normally. Therefore the use of the external power adapter is highly recommended. You can use the adapter included or if necessary, you may use any external 5 voltage, 2A DC power that is UL, CE, T-mark or locally approved. For Polarity, see the following:



- **Q: I am getting an "Unknown Device" error.**

  **A:** If the installation process is completed and some of the devices still don't work, please click on **Start, Settings, Control Panel**, double-click **System**, and **Device Manager.** Check **"Human Interface Devices", "Keyboard", "Mouse", "Network adapters", "Ports",** and "**Universal serial bus controller**" on the dialog box and see if "Unknown device" appears on the screen. You need to right-click the "**Unknown device**" and choose **Remove t**o remove it. Then choose **Refresh** to re-detect the device. (You might need to install the device driver once again so please follow the same installation procedures as section 2.1). If after trying the above procedures your device still does not work, please contact your distributor.

- **Q: I am getting an "Unknown Printer" error under Windows XP 64 bit although all drivers had been installed.**

Found New Hardware Wizard
This wizard helps you install software for:
UnknownPrinter
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Fig.15

**A:** This problem will happen only if there is no printer connecting to **USB 2.0 VGA LAN DOCK**. The message is caused by Microsoft embedded USB printer driver of Windows XP x64 failed to handshake with printer. To avoid this problem, please connect your printer with **USB 2.0 VGA LAN DOCK** first, and then connect **USB 2.0 VGA LAN DOCK** to computer's USB port.

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This device generates and uses radio frequency and may cause interference to radio and television reception if not installed and used properly. This has been tested and found to comply with the limits of a Class B computing device in accordance with the specifications in Part 15 of the FCC Rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by plugging the device in and out, the user can try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.